

## **Doraid M. Dalalah**

Dean  
Faculty of Engineering  
Jordan University of Science and Technology  
Professor of Industrial Engineering  
Email: doraid@just.edu.jo



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### **Education:**

- PhD in Industrial and System Engineering, Lehigh University- PA-USA, 2005.  
Thesis Title: “Internet Congestion Optimization and Control in Data Networks”.
- Master degree in Industrial Engineering, design and manufacturing branch, University of Jordan, 1999.  
Thesis Title: Robot Trajectory Planning Using Neural Networks.
- B.Sc. In Mechanical Engineering – Industrial Engineering Branch (Production Branch), Jordan University of Science and Technology, 1996. Rank: Top 10%.
- High school (Alzarnouji Secondary School), 1991. Rank: first in West Irbid County.

### **Awards/ Scholarships:**

- USA permanent residency (EB1 green card) for aliens with extra ordinary abilities.
- Golden residency, UAE (2023-2033).
- PhD. Degree scholarship.
- Master degree Scholarship.

### **Editorial Board Membership**

- International Journal of Simulation Modelling, IJSIMM

### **Academic Accreditation Experience**

- PhD program in Engineering Management – Accreditation Coordinator, University of Sharjah – UAE, 2021-2023.
- B.Sc. program coordinator and a member of ABET team, Industrial Engineering and Engineering Management – University of Sharjah – UAE, 2019-2020.
- Coordinator of ABET committee, Department level – Industrial and Management Systems Engineering-Kuwait University, 2014-2018.
- ABET team member, College level – Kuwait University 2014-2018.

**Administrative Experience:**

- ABET team leader, Department Level – Industrial Engineering and Engineering Management, Jordan of Science and Technology, 2010-2012.
- 1. Dean, Faculty of Engineering, Jordan University of Science and Technology, 2024-Present.
- 2. PhD Program Manager, College of Engineering, University of Sharjah, 2021-2023.
- 3. Vice dean of Students Affairs and Director of King Abdullah II Fund for Development, Jordan University of Science and Technology, Sep. 2012-Sept. 2014.
- 4. Chairman of Industrial Engineering, Jordan University of Science and Technology, Sep. 2010-Sep. 2012.
- 5. Assistant Dean, Faculty of Engineering, Jordan University of Science and Technology, Sept. 2007-Sep. 2010.

**Teaching Experience:**

**Fulltime:**

1. Associate Prof. University of Sharjah, Industrial Eng. and Eng. Management: Sept. 1<sup>st</sup> 2018 – June 2023.
2. Kuwait University, Industrial and Management System Engineering, Associate Prof: Sept. 2014 - Aug. 2018 (end of contract).
3. Jordan University of Science and Technology - Industrial Engineering Department: 2005-Sep. 2014:
  - Associate Prof.: Sep. 2010-Sep. 2014.
  - Assistant Professor, Sept. 2005 to Sep.2010.
4. A lecturer in Al-Balqa University-Amman College, Courses: Control, Control Lab, CNC, and Automation, Descriptive Geometry, Oct. 1999- Dec. 2000.

**Part-time:**

1. Assistant professor (part time), Jordan University-Amman, fall 2008-spring 2009, lecturer for Human Factors.
2. Assistant professor (part time), Yarmouk University, Fall/spring 2010, part time lecturer for Operations Management.
3. Part-time Lecturer- Lehigh University- Bethlehem-PA, Summer 2004. Introduction to Manufacturing Processes.
4. Part time lecturer at Delaware valley college –PA -USA, Introduction to PC hardware and AutoCAD, Fall 2004.
5. Part-time Lecturer- Lehigh University- Bethlehem-PA, 2001-2005. Engineering Computing and Numerical Methods.
6. Part-time Lecturer, Lehigh University- Bethlehem – PA- USA, 2002. Manufacturing Lab Instructor:

**Industrial Experience:**

1. Mechanical engineer in Hydraulics and Maintenance Department at the Jordan Cement Factories (JCF), Jun. 97-Sep. 99.
2. Mechanical design engineer (Part time), Freedom lift, Green Lane, PA, USA. 2003-2005.
3. Mechanical design engineer (Part time) – Enterprise systems-

Lehigh University, Dec. 2001 - 2005.

4. Mechanical engineer at Balazs Boxing Co. Bethlehem, PA-USA, Jun.-Aug 2001, Tel: 610 433 4515.
5. Two years as a research and teaching assistant in the Industrial Engineering Department at the University of Jordan in the fields: Instrumentation, Design, Metrology lab, Sep 1996 - Jun. 1998.

## **Publications:**

### **Journals:**

1. MA Alketbi, D Dalalah, F Dweiri (2024). A Framework for the Characterization of Aviation Construction Projects: The Case of UAE, *Buildings* 14 (8), 2384.
2. D Dalalah, OMA Dalalah (2023). The false positives and false negatives of generative AI detection tools in education and academic research: The case of ChatGPT. *The International Journal of Management Education* 21 (2), 100822, 2023.
3. D Dalalah (2023) Evaluation of gauges in measurement systems, *Production Engineering*, 1-17
4. D Dalalah, U Ojiako, KA Alkhaledi, A Marshall (2023). A support vector machine model for due date assignment in manufacturing operations. *Journal of Industrial and Production Engineering, JIPE*, 40 (1), 68-85.
5. D Dalalah, KA Alkhaledi (2023). Optimization of red blood cell inventory: a blood-type compatibility-preference and emergency model. *International Transactions in Operational Research*, 30 (1), 239-272
6. H Allaham, D Dalalah (2022). Optimization of maintenance tasks of spatially distributed assets with non-preemptive overtime. *International Journal of Management Science and Engineering Management*, 17, 4, 279-294.
7. D Dalalah, U Ojiako, M Chipulu (2022). On perishable inventory in healthcare: Random expiration dates and age discriminated demand. *Journal of Simulation* 16 (5), 458-479.
8. D Dalalah, SA Khan, Y Al-Ashram, S Albeetar, Y Abou Ali, E Alkhouli (2022). An integrated framework for the assessment of environmental sustainability in wood supply chains. *Environmental Technology & Innovation* 27, 102429.
9. SA Khan, U Ojiako, A Marshall, D Dalalah, S Ceylan, NN Ali Shabani (2022). The Critical Risk Factors that Influence Production-oriented Projects in the United Arab Emirates: A 'Best-worst Method'(BWM) Analysis. *Engineering Management Journal*, 1-17.
10. K Alkhaledi, K Means, D Dalalah (2022). Enhancing the safety

- and reliability for loading and unloading bulk storage bags and a new bulk feeder support design structure. *International Journal of Computer Aided Engineering and Technology* 17, 4, 462-479.
11. D Dalalah, M Khasawneh, S Khan (2022). Pricing and demand management of air tickets using a multiplicative newsvendor model. *Journal of Revenue and Pricing Management* 21 (5), 517-528.
  12. H Allaham, D Dalalah (2022). MILP of multitask scheduling of geographically distributed maintenance tasks. *International Journal of Industrial Engineering Computations* 13 (1), 119-134.
  13. DD Lubna Ghassan Obaid, Haneen Abu Zaid, Doraid Dalalah (2022). Ranking risk attitudes using an integrated AHP-TOPSIS approach. *International Journal of Applied Decision Sciences* 15 (1), 68.
  14. K Alkhaledi, D Dalalah (2021). Measurement system analysis of viscosity: a Six-Sigma gage repeatability and reproducibility analysis. *International Journal of Quality Engineering and Technology* 8 (3), 229-248.
  15. H Laham, D Dalalah (2020). Developing a model for the optimization of maintenance costs in commercial buildings in UAE. *Proceedings of the 5th NA International Conference on Industrial Engineering Management*.
  16. D Dalalah (2020). Logistic resources allocation in supply chains: a utility decentralised optimisation approach. *International Journal of Logistics Systems and Management* 37 (3), 299-323.
  17. R Faris, B Almasri, H Faris, FM AL-Oqla, D Dalalah (2020). Evolving genetic programming models for predicting quantities of adhesive wear in low and medium carbon steel. *Evolutionary machine learning techniques*, 113-127.
  18. D Dalalah (2019). Risk premiums and certainty equivalents of loss-averse newsvendors of bounded utility. *Journal of Industrial Engineering International* 15 (4), 667-678.
  19. Doraid Dalalah, Optimization of Red Blood Cells' Inventory: an ABO Compatibility-Preference and Emergency Model, *International Transactions in Operational Research*, ITOR-Wiley, accepted, 2021.
  20. Lubna Obaid, Haneen Abuzaid, Dorid Dalalah, Salhah Alhassani, Fouzeyya Albastaki and Tania El Khalil (2020). Ranking Risk Attitudes Using an Integrated AHP-TOPSIS Approach. Accepted.
  21. Doraid Dalalah, Udechukwu Ojiako, Maxwell Chipulu, (2020). Voluntary overbooking in commercial airline reservations, *Journal of Air Transport Management*, Volume 86, 2020, 101835, <https://doi.org/10.1016/j.jairtraman.2020.101835>

[//doi.org/10.1016/j.jairtraman.2020.101835](https://doi.org/10.1016/j.jairtraman.2020.101835).

22. Faris R., Faris H., AL-Oqla FM., D Dalalah (2020). Evolving Genetic Programming Models for Predicting Quantities of Adhesive Wear in Low and Medium Carbon Steel. *Evolutionary Machine Learning Techniques*, 113-127.
23. Doraid Dalalah, Wasfi Al-Rawabdeh, (2017). Benchmarking the utility theory: a data envelopment approach, *Benchmarking: An International Journal*, Vol. 24 Issue: 2, pp.318-340, <https://doi.org/10.1108/BIJ-11-2015-0105>.
24. Doraid Dalalah (2019). Logistic Resources Allocation in Supply Chains: A Utility Decentralized Optimization Approach. *International Journal of Logistics Systems and Management*. DOI:10.1504/IJLSM.2019.10021601
25. O Bataineh, T Al-Hawari, H Alshraideh, D Dalalah (2019). A sequential TPM-based scheme for improving production effectiveness presented with a case study, Vol. 25, issue 1.
26. Doraid Dalalah, 2019 Platelets Inventory Management: A Rolling Horizon Sim-Opt Approach for an Age Differentiated Demand Platelets Inventory Management: A Rolling Horizon Sim-Opt Approach for an Age Differentiated Demand, *Journal of Simulation*. Volume 13, - Issue 3
27. Doraid Dalalah, Loss Averse Newsvendor Model of Bounded Utility. *Production & Manufacturing Research*. Volume 6, 2018 - Issue 1.
28. Doraid Dalalah: LSP-Constrained Supply Chains: A Discrete Event Simulation Model. *RAIRO – Operations Research* 50(1): 1-17 (2016).
29. Majid M. Aldaihani and Doraid M. Dalalah, “Capacitated supply chain: an optimisation model”, *Int. J. Logistics Systems and Management*, Vol. 24, No. 1, 2016.
30. Doraid Dalalah, Majid Aldaihani, “Retailer Driven Supply Chain With Limited Transportation Capacities and Supply-Demand Market Index”, *International Journal of Integrated Supply Management*, Vol. 10, issue 2, 2016.
31. Doraid Dalalah; Khaled Alkhaledi. A stochastic non-expected utility for modelling human errors of certainty equivalents. *IJADS*, 2016, Vol. 9, No. 3.
32. Omar Al-Araidah, Dalalah, D., Azeez, M.A-A. and Khasawneh, M.T. A heuristic for clustering and picking small items

- considering safe reach of the order picker,. *European J. Industrial Engineering*, 2017, Vol. 11, No. 2, pp.256–269.
33. Wasfi A. Al-Rawabdeh and Doraid Dalalah. Predictive decision making under risk and uncertainty: A support vector machines model. *RAIRO-Oper. Res.* 51 (2017) 639-667.
  34. Mohammed Al-Salem · Ali Diabat · Doraid Dalalah · Mahmoud Alrefaei, “A closed-loop supply chain management problem: Reformulation and piecewise linearization”, *Journal of Manufacturing Systems*, Vol. 40 (2016) 1–8.
  35. Doraid Dalalah, Dania Bani Hani, “A precision-to-tolerance ratio model for the assessment of measurements uncertainty”, *Precision Engineering*, Volume 44, April 2016, Pages 143-151.
  36. Doraid Dalalah, Dania Bani Hani, “On the actual and observed process capability indices: A signal-to-noise ratio model”, *Measurement*, Volume 81, March 2016, Pages 241-250.
  37. Doraid Dalalah, Wasfi A. Al-Rawabdeh & Hussam Alshraideh, “The beta stochastic utility ( $\beta$ -SU)”, *Stochastic Analysis and Applications*, Volume 34, Issue 3, 2016, pages 456-482.
  38. Doraid M. Dalalah, Mohammed Hayajneh, Amena Sanajleh: Modelling decision making under risk and uncertainty by novel utility measures. *IJADS* 8(2): 179-202 (2015).
  39. Doraid Dalalah: Proportional fairness: more secrets revealed. *Int. J. Communication Systems* 28(16): 2122-2144 (2015).
  40. Doraid Dalalah and Ali Diabat, “Repeatability and reproducibility in med labs: a procedure to measurement system analysis”, *IET Science, Measurement & Technology*. Volume 9, Issue 7, October 2015, p. 826 – 835.
  41. Doraid Dalalah, Samir Khrais, Khalid Bataineh, “Waste minimization in irregular stock cutting”, *Journal of Manufacturing Systems*, 2014, (33) 1, 27-40.
  42. Khaled Bataineh, Doraid Dalalah, Assessment of wind energy potential for selected areas in Jordan. *Renewable Energy*. Volume 59, November 2013, Pages 75–81.
  43. Doraid Dalalah, Wasfi Rawabdeh “Cost driven traffic assignment in transportation networks”, *Int. J. Modelling in Operations Management*. Vol. 3, issue 3, 2013.
  44. Doraid Dalalah, Mohammad Tahat, Khaled Bataineh “Mutually

- Dependent Multi-Criteria Decision Making" International Journal Of Fuzzy Information And Engineering, 2012. Volume 4, Issue 2, pp 195-216.
45. Mohammad Tahat, Doraid Dalalah "Dynamic Programming Model for Multi-stage Single-product Kanban-Controlled Serial Production Line" Journal of Intelligent Manufacturing, Volume 23, Issue 1, pp 37-48.
  46. K. Bataineh and D. Dalalah, "Optimal Configuration for Design of Stand-Alone PV System," Smart Grid and Renewable Energy, Vol. 3 No. 2, 2012, pp. 139-147. doi: 10.4236/sgre.2012.32020.
  47. Doraid Dalalah, Mohamed Hayajneh, Farhan Bateiha, "A Fuzzy Multi-Criteria Decision Making Model for Supplier Selection" Volume 38, Issue 7, July 2011, Pages 8384-8391.
  48. Doraid Dalalah, Faris AL-Oqla, Mohammed Hayajneh. Application of the Analytic Hierarchy Process (AHP) in Multi-Criteria Analysis of the Selection of Cranes. JJMIE, Volume 4, Number 5, November 2010, pages 567 - 578.
  49. Doraid Dalalah, 2009. Real-Time Optimization Flow Control. Computer Networks, Volume 54, Issue 5, 8 April 2010, Pages 797-810.
  50. Doraid Dalalah, Omar Ariadah, 2009, Dynamic Decentralized Balancing of CONWIP Production Systems. International Journal of Production Research, vol. 48, no. 13, pp. 3925-3941, 2010.
  51. Doraid Dalalah, Omar Bataineh, 2008. A fuzzy logic approach to the selection of the best silicon crystal slicing technology, Expert Systems With Applications. Volume 36, Issue 2, Part 2, March 2009, Pages 3712-3719.
  52. Omar Bataineh, Doraid Dalalah, 2009. Strategy for optimising cutting parameters in the dry turning process of aluminium based on design of experiments and the generalised pattern search algorithm. Int. J. Machining and Machinability of Materials. Vol. 7, Nos. 1/2, 39-57.
  53. Doraid Dalalah, 2009. Piecewise Parametric Polynomial Fuzzy Sets. International Journal of approximate reasoning. Vol. 50, Issue 7, Pages 1081-1096.
  54. Doraid Dalalah and Benjamin Lev, Duality of the improved algebraic method (DIAM), Omega 37:1027 (2009).
  55. Dalalah, D.; Cheng, L.; Tonkay, G. 2008. Modeling End-to-End

Wireless Lossy Channels: A Finite-State Markov Approach, IEEE Transactions on Wireless communications. , Volume: 7, Issue: 4, pp.1236-1243.

56. Doraid Dalalah, Sami Magableh, 2008. A Remote Fuzzy Multi-Criteria Diagnosis of Strep Throat, Telemedicine and EHealth Journal, 14(7): 656-665.
57. Doraid Dalalah, M. T. Hayajneh, 2007. Dynamic neural model for mobile Robot navigation, Neural Network World, Vol. 17, No. 1, pp.65-80.
58. Doraid Dalalah, Khaldoun Tahboub “Mobile Robot Trajectory Planning Using Neural Networks”, International Journal of Robotics and Automation. Vol. 18, No. 2, 2003. p55.

### **Conferences:**

1. Doraid Dalalah, Voluntary Overbooking in Hotels Industry: Prioritizing Customer Satisfaction. 13thSep International Conference on Business, Accounting, Financial, Marketing and Management Analytics (ICBAFMMA -2024) Rome, Italy.

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2. Doraid Dalalah (2022). The Expected Value of Perfect Information of COVID-19 Treatment Using Discrete Event Simulation. The 19th International Multidisciplinary Modeling & Simulation Multiconference, Sep. 2022, Rome.

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3. Reem Adel Alshamisi, D. Dalalah (2022). Risk Classification and Prediction: A Logistic Regression Approach for Analyzing Property Risk Classes in Insurance Companies. Proceedings of the International Conference on Industrial Engineering and Operations Management. Nsukka, Nigeria, 5 - 7 April, 2022

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4. Omar Afana, Radhi Alzubaidi, Doraid Dalalah (2022). Cost Overrun Factors During the Lifecycle Phases of Buildings Construction Projects in the United Arab Emirates. IEOM Paraguay Conference.

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5. Hamed AL Laham and Dorid Dalalah (2020). Developing a Model for the Optimization of Maintenance Costs in Commercial Buildings in UAE. IEOM, Detroit, Michigan, USA, August 10 - 14, 2020.

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6. Doraid Dalalah. Management of age differentiated perishable

inventory. IEEE International Symposium on Systems Engineering (ISSE 2017) 30 October 2017, Vienna, Austria.

7. Doraid Dalalah, 2008. Optimization Flow Control: A Queue Proportional Algorithm, ISIC 2008. IEEE International Symposium on Intelligent Control, San Antonio, TX, USA. 401-407.
8. Doraid Dalalah, 2009. A Hybrid DEMATEL-TOPSIS Multi-Criteria Decision Making Model. IEEE conference on information Reuse and Integration IRI-2009, Aug. 2009. LasVegas-USA. Page: 428.
9. Doraid Dalalah: Congestion Optimization in Data Networks. DMS 2010, USA, Chicago, 88-93.
10. Doraid Dalalah. "Mobile Robot Path Planning in a 2-Dimensional Mesh". World Academy of Science, Engineering and Technology vol. 62, 2010, Malaysia.page: 236.
11. Doraid Dalalah. "Decentralized Work-in-process Optimization in Cooperative Resource Allocation", 7th International Conference on Collaborative Computing: Networking, Applications and Worksharing. Orlando, Florida, USA, October 15-18, 2011.
12. Stochastic Non-Utility Certainty Equivalents (SNCE) of Decision Making Under Risk and Uncertainty, International Conference on Technology and Business Management, Dubai March 24-26 2014.

#### **Currently Submitted Work:**

13. Doraid Dalalah, Testing Process Capability and Benchmarking the Signal-to-Noise Ratio of Erroneous Measurements, submitted to International Journal of Industrial Engineering: Theory, Applications and Practice.

#### **Citation records (from google scholar)**

Around 1825 citations can be found in google scholar for the above publications.

#### **Patents**

JUST Solar Maid (submitted to Innovation Center at JUST in August 2024).

#### **Selected Master and PhD thesis supervision**

1. PhD thesis of Mariam Alkebi: An Artificial Intelligent Framework for the characterization and development of Aviation Engineering Project Management in the UAE. In progress.
2. PhD thesis of Salama Alkaabi: An artificial intelligence model for the design and selection of public housing in UAE. In

progress.

3. PhD thesis of Hamed Allaham: Developing a Model for the Optimization of Maintenance Costs in Commercial Buildings in UAE, 2020.
4. Master thesis: Modeling Decisions Under Risk and Uncertainty With Novel Utility Measures, Summer 2014.
5. Master thesis: Six Sigma: Modeling the tradeoffs between the actual and the observed capability indices with existing measurement errors, Summer 2014.
6. Master thesis: Developing a New Hybrid Fuzzy Model in Multi Criteria Decision Making Problem, Fall 2009.
7. Master thesis: Card flow control technique in sizing the number of pallets in automatic pallet change, Fall 2008.
8. Master thesis: Design and analysis of a person-on-board in the aisle order picking system, Fall 2007.

*And many more..*

**BSc. Graduation  
Project  
supervision  
(sample)**

1. Teeth Care+: Innovative design of tooth brush.
2. Optimization of Blood bank Inventory System.
3. Optimizing Project Networks using DAE.
4. Data Envelopment Analysis: A case study.
5. Repeatability and Reproducibility in Measurement System Analysis: A case study.
6. Simulation Study at Outpatients Clinics, Jordan University Hospital.
7. AHP online (Analytical Hierarchy Process online)
8. Operations and skills Management at El-Zay Ready Wear Company
9. Application of Quality Function Deployment in Jordanian Hotels: A case study.
10. Best Cut: An optimization Approach For Managing Sheet Cuts And Layouts
11. Design and manufacturing of All-blade positive-torque wind turbine.
12. The design and analysis of a Gyroscope.
13. Quality Improvement in Jordan Telecommunication Companies
14. Optimal Selection of Location for Jordanian Hospitals by Using the analytical Hierarchy Process and Sensitivity analysis
15. Inventory control and Operations Management in Pharmaceutical Companies
16. Simulation case study: Vehicles licensing office of Irbid City (Al-Sareeh).
17. Civil Affairs Passports office of Irbid City Note: Grad Project 2.
18. Simulation of the Fastlink call center with Arena
19. Data Traffic Control in Networks.

*and many others not listed...*

**Delivered  
Workshops  
(sample)**

1. SPSS, July 2024, Academic Development and Quality Assurance (ADQA), Jordan University of Science and Technology.
2. Graphics. Kuwait Directorate General of Civil Aviation. Kuwait 13-17/9/2015.

3. PDF Professional, Kuwait Public Authority for industry. Kuwait: 1/3-5/3-2015.
4. Inventory planning and control, Saudi Arabia, Damman, 8-12 Sept. 2012.
5. Maintenance Management, Oman –Mascut, June 20 – 30, 2009.
6. SolidWorks: Consultative center of Jordan University of Science and Technology, 2011.
7. SPSS: Consultative center of Jordan University of Science and Technology, Jan. 2012.
8. How to master Photoshop, Jordan, Jordan University of Sci. and Tech. Consultative center, delivered many times.

*and many others*

**Capabilities Brief:**

***Computer applications:***

Programming: Matlab, Visual Basic, C++, C, Java, Java Script, HTML development, ASP, PHP, SQL, XML, PLC/CNC.

Software: Arena Simulation, Promodel, MS office, MS project, AutoCAD, Solidworks, I-DEAS, MINITAB, SPSS, Corel Draw, Adobe PhotoShop and Illustrator, and many other widely used computer applications.

***Others:***

Excellent knowledge in Control Theory, Control lab, Electronics, Programming, Mathematics, CNC/PLC, Automation, Robotics, Artificial Intelligence, Instrumentation, Hydraulics, Pneumatics and many other related topics.

**Languages:**

English: Excellent.  
Arabic: Native Language.

**Courses delivered:**

Simulation (Arena/Promodel), Operations Research I and II, Advanced Operations Research, Operations Management, Data Analytics, Integrated Management tools, Applied Statistics, Six Sigma, Quality Control and Management, Design of Experiments, Production Planning and Control, Reliability and Maintenance, Parallel Computing and Nonlinear optimization,

In addition to the following:

Computer Aided Design and Manufacturing, Design of Production Systems, Manufacturing Systems, Production Processes, Industrial Drawing, Statics, Mechanics of material, Automatic Control.

**Grants:**

**Funded Projects :**

1. Shortage and Spoilage Optimization of Red Blood Cells' Inventory at Blood Banks, 40,000AED. 2019-2020.
2. The design and manufacturing of Omni-Wheel Robot Arm: Funded by Deanship of Research: 8000JD.
3. Data Acquisition Project, Funded by Deanship of Research: 1500JD.

4. Shortage and Outdate Optimization of Red Blood Cells Inventory at Hospitals of Kuwait, 12000US dollars.
5. Quality Control and Documentation of Foam Making At Bibars Foam Factory . FFF program, 2007, Fund 3700JD
6. Redesign of the Truck Trailer Tank Support System at The Boss Company. The Boss For Truck Trailers. FFF program, 2009, Fund 3700JD
7. Developing and Designing of Adjustable Saw Blade Housing System at Bibars Foam Co. for Minimizing Foam Waste . FFF program, 2009, Fund 3500JD
8. Design and Manufacturing of Foam Mass Cutting Saw Machine . HCST, 2009, Fund 5000JD
9. The Modification of Tank Trailers to Flat Bed and Boxed Bed Trailers. HCST, 2009, Fund 22000JD
10. Modification of the pneumatic pump in Jordan Cement Factories. JCF

**Committees  
(sample)**

I have been involved in almost all types of academic committees, here is a sample:

1. Undergraduate Program Committee for IMSE department.
  2. Assessment coordinator for the IMSE department.
  3. Coordinator of the Senior Design Evaluation committee.
  4. Chair of Scholarship committee.
  5. Coordinator of the IMSE facilities development committee.
  6. Chair of IMSE conference committee.
  7. Accreditation Board of Engineering Technology (ABET) committee chair and member.
  8. University E-learning Strategic Planning Committee / Member.
  9. Faculty of Engineering Promotion Committees /Chair and Member.
  10. Faculty of Engineering Website Development Committee Chair.
  11. Faculty of Engineering Annual Report Coordinator.
  12. Faculty of Engineering Training Committee / Committee Chair.
  13. Great Arab Revolt Club / Consultant 2009.
  14. Student Union Election coordinator and supervisor, 2010, 2008.
  15. Student Affair Committee - Student deanship, 2008-2010.
  16. Department Higher Education Committee / Committee Chair.
  17. Faculty exchange-students and course equivalency committee / Committee chair.
  18. Department Social Committee / Chair and member.
  19. Member of the Jordan Engineers Association.
  20. Member of the American Society of Mechanical Engineers
- And many others...

**Service as a reviewer in international journals (sample)**

I have served and still serving as reviewer for many international journals such as:

- Measurement, Elsevier.
- International Journal of Production Research, Tylor and Francis.
- Omega, Elsevier.
- European Journal of Operations Research, Elsevier.
- Simulation, Applications, Theory and Practice, Elsevier.
- European Journal of Industrial Engineering, Inderscience.
- IEEE Transactions on Fuzzy sets and Systems.
- Benchmarking, Emerald.
- International Journal of Logistics and Supply Management, Inderscience.
- Computers and Industrial Engineering, Elsevier.
- Knowledge Management Research & Practice, Elsevier.
- RAIRO - Operations Research, *edp* sciences.
- Annals of Operational Research, Springer.

And many others...

**References:**

1. Prof. Hamid M.K. Al-Naimiy, Chancellor/President, University of Sharjah, UAE, [alnaimiy@sharjah.ac.ae](mailto:alnaimiy@sharjah.ac.ae).
2. Prof. Ahmad Alshamma, Chancellor/President, University of Korfakkan, UAE.
3. Dr. Khalid Mayyas, Former Dean of Faculty of Engineering, Electrical Engineering Department, Jordan University of Science and Technology, email: [Mayyas@just.edu.jo](mailto:Mayyas@just.edu.jo)
4. Mohammed T. Hayajneh, Vice dean of faculty of engineering, Jordan University of Science and Technology. Email: [hayajneh@just.edu.jo](mailto:hayajneh@just.edu.jo)
5. Dr. Ahmad Shlash Alawneh, Dean of Students Affairs, Jordan University of Science and Technology, Jordan. Email: [asshslash@just.edu.jo](mailto:asshslash@just.edu.jo)